

Table A LSER Regression Coefficients for 14 polymers at 25 C

Polymer	Constant, c	Polarizability, r	Dipolarity, s	Hydrogen Bond basicity, a	Hydrogen bond acidity, b	Dispersion, l
PIB	-0.77	-0.08	0.37	0.18	0.00	102
SXPH	-0.85	0.18	1.29	0.56	0.44	0.89
PEM	-1.65	-1.03	2.75	4.23	0.00	0.87
SXCN	-1.63	0.00	2.28	3.03	0.52	0.77
PVTD	-0.59	-0.02	0.74	2.44	0.22	0.92
PECH	-0.75	0.10	1.63	1.45	0.71	0.83
PVPR	-0.57	0.67	0.83	2.25	1.03	0.72
OV202	-0.39	-0.48	1.30	0.44	0.71	0.81
P4V	-1.33	-1.54	2.49	1.51	5.88	0.90
SXFA	-0.08	-0.42	0.60	0.70	4.25	0.72
FPOL	-1.21	-0.67	1.45	1.49	4.09	0.81
ZDOL	-0.49	-0.75	0.61	1.44	3.67	0.71
PEI	-1.60	0.50	1.52	7.02	0.00	0.77
SXPYR	-1.94	-0.19	2.43	6.78	0.00	1.02

Note: Polymer abbreviations are as follows: PIB Poly(isobutylene), SXPH 75% phenyl-25% methylpolysiloxane, PEM poly(ethylene maleate), SXCN Poly bis(cyanopropyl) siloxane, PVTD poly( vinyltetradecanal) , PECH poly(epichlorohydrin), PVPR poly(vinyl propionate) , OV202 poly(trifluoropropyl) methyl siloxane, P4V poly(4-vinylhexafluorocumyl alcohol), SXFS 1-(4-hydroxy, 4-trifluoromethyl,5,5,5,-trifluoro)pentene, FPOL fluoropolyol, ZDOL Fomblin Z-dol, PEI Poly(ethyleneimine), SXPYR alkylaminopyridyl- substituted siloxane.